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Substitute for Form 1449A-BPTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)	<b>Complete if Known</b>	
	Application Number	09/704469
	Filing Date	November 1, 2000
	First Named Inventor	Erik Karrer
	Group Art Unit	Unassigned
	Examiner Name	Unassigned
	Attorney Docket Number	02-102020US

U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No.	U.S. Patent Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, lines, Where Relevant Passages or Relevant Figures Appear
	AA	09/407,808		Maxygen, Inc.	09-28-1999	
	AB	09/408,392		Maxygen, Inc.	09-28-1999	
	AC	09/408,393		Maxygen, Inc.	09-28-1999	
	AD	09/618,579		Maxygen, Inc.	07-18-2000	
	AE	60/186,482		Maxygen, Inc.	08-02-2000	
	AF	4,634,664		Engelman et al.	01-06-1987	
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	AH	5,756,316		Schellenberger	05-26-1998	
	AI	5,783,431		Peterson et al.	07-21-1998	
	AJ	5,824,485		Thompson et al.	10-20-1998	

FOREIGN PATENT DOCUMENTS								
Examiner Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	Number	Kind Code (if known)				
	AK	WO	00/00632	A1	Phylos, Inc	01-06-2000		
	AL	WO	00/09676	A1	Proteus	02-24-2000		
	AM	WO	00/42560	A2	Maxygen, Inc.	07-20-2000		
	AN	WO	00/42560	A3	Maxygen, Inc.	07-20-2000		
	AO	WO	00/42561	A2	Maxygen, Inc.	07-20-2000		
	AP	WO	00/42561	A3	Maxygen, Inc.	07-20-2000		
	AQ	WO	00/46344	A2	Diversa Corp.	08-10-2000		
	AR	WO	00/46344	A3	Diversa Corp.	08-10-2000		
	AS	WO	00/42559	A1	Maxygen, Inc.	07-20-2000		
	AT	WO	95/22625	A1	Stemmer	08-24-1995		
	AU	WO	96/33207	A1	Stemmer	10-24-1996		
	AV	WO	97/35957	A1	Stemmer	10-02-1997		
	AW	WO	98/42727	A1	SRI International	10-01-1998		

Examiner Signature	/Eric Dejong/	Date Considered	01/18/2007
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS															
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T												
	AX	Balint and Larrick (1993) "Antibody Engineering by Parsimonious Mutagenesis." <i>Gene</i> 137:109-118													
	AY	Chothia and Lesk (1987) "Canonical Structures for the Hypervariable Regions of Immunoglobulins." <i>J Mol Biol.</i> 196:901-917													
	AZ	Giver et al. (1998) "Combinatorial protein design by in vitro recombination." <i>Current Opinion in Chemical Biology</i> 2(3): 335-338.													
	BA	Gram et al. (1992) "In Vitro selection and affinity maturation of antibodies from a naïve combinatorial immunoglobulin library." <i>PNAS</i> 89:3576-3580													
	BB	Hawkins et al. (1992) "Selection of phage antibodies by binding affinity. Mimicking affinity maturation." <i>J. Mol Biol.</i> 226:889-896													
	BC	Hock (1997) "Antibodies for immunosensors: a review." <i>Analytica Chimica Acta</i> 347:177-186													
	BD	Huse et al. (1989) "Generation of a Large Combinational Library of the Immunoglobulin Repertoire in Phage Lambda." <i>Science</i> 246:1275-1281													
	BE	Jirholt et al. (1998) "Exploiting sequence space: shuffling in vivo formed complementarily determining regions into a master framework." <i>Gene</i> 215:471-476													
	BF	Litman et al. (1993) "Phylogenetic diversification on immunoglobulin genes and the antibody repertoire." <i>Mol Biol Evol</i> 10:60-72													
	BG	Low et al. (1996) "Mimicking somatic hypermutation: affinity maturation of antibodies displayed on bacteriophage using a bacterial mutator strain." <i>J. Mol Biol.</i> 260:359-368													
	BH	Marks et al. (1991) "By-passing immunization. Human antibodies from V-gene libraries displayed on phage." <i>J. Mol Biol.</i> 222:581-597													
	BI	Marks et al. (1992) "By-Passing Immunization: Building High Affinity Human Antibodies by Chain Shuffling." <i>Biotechniques</i> 10:779-782													
	BJ	Schier and Marks (1996) "Efficient in vitro affinity maturation of phage antibodies using BIAcore guided selections." <i>Hum Antibodies Hybridomas</i> 7:95-105													
	BK	Stemmer et al. (1993) "Selection of an Active Single Chain Fv Antibody From a Protein Linker Library Prepared by Enzymatic Inverse PCR." <i>Biotechniques</i> 14(2):256-265													
	BL	Stemmer et al. (1995) "Single-step assembly of a gene and entire plasmid from large numbers of oligodeoxy-ribonucleotides." <i>Gene</i> 164:49-53													
	BM	Stemmer et al. (1997) "Molecular evolution of genes and pathways by DNA shuffling." <i>FASEB J.</i> 11:A1124													
	BN	Ward et al. (1989) "Binding activities of a repertoire of single immunoglobulin variable domains secreted from Escherichia coli." <i>Nature</i> 341:544-546													

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BO	Winter et al. (1994) "Making Antibodies by Phage Display Technology." <i>Annu Rev. Immunol</i> 12:433-455		
BP	Wu et al. (1970) "An analysis of the sequences of the variable regions of bence jones proteins and myeloma light chains and their implications for anti-body complementarity." <i>J. Exp Med.</i> 132:211-250		

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